| Inde | ex of | Claims |  |
|------|-------|--------|--|
|      |       |        |  |

| Application No. | Applicant(s) |
|-----------------|--------------|
| 09/778,421      | KAJINO ET AL |
| Examiner        | Art Unit     |
| MUHAMMAD N EDUN | 2655         |

|   | Rejected | -  | (Through nu<br>Cancelle |
|---|----------|----|-------------------------|
| : | Allowed  | ,÷ | Restrict                |

| -  | (Through numeral)<br>Cancelled |
|----|--------------------------------|
| ·÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| - | Interference |

| Α | Appeal   |
|---|----------|
| О | Objected |

| Cla      | laim Date |                |                        |                                     | Claim Date           |          |                        |          |                     | 7:::          | С   | aim           | Date   |          |          |                 |             |              |  |  |                         |               |           |
|----------|-----------|----------------|------------------------|-------------------------------------|----------------------|----------|------------------------|----------|---------------------|---------------|---|---------------|--------|----------|----------|-----------------|-------------|--------------|--|--|-------------------------|---------------|-----------|
|          |           |                |                        |                                     | $\Box$               |          |                        |          |                     |               |   |               | 1111   |          | _        |                 |             |              |  |  | П                       | П             | ٦         |
| ল        | Original  | 11/29/04       |                        |                                     |                      | 7        | ल                      | Original | 1                   |               |   |               | 1111   | To       | Original |                 | -           | i            |  | . :  | ıl                      |               |           |
| Final    | ïĝi       | /29            | 111                    |                                     | 1 1                  |          | Final                  | Ϊġ       |                     |               |   |               |        | Final    | j.       | ŀ               | 1           | ١.           |  |  | ıl                      |               |           |
| -        | õ         | 11             | 1                      |                                     | 11                   |          |                        | ŌΙ       |                     |               |   |               | 100    | -        | -0       |                 |             |              |  |  | ıl                      |               |           |
| 1        | 1         | =              | <del>-      </del>     | +                                   | ++                   | -        | <b></b>                | 51       |                     | 1 1           | ++  |               | -      | :        | 101      | 十               | <del></del> | <del> </del> |  | $\vdash$   | $\vdash$                | $\dashv$      | $\dashv$  |
|          |           | =              |                        | -+-                                 |                      | -        | $\vdash \vdash \vdash$ |          |                     | $\vdash$      |   | +             | -      | -        | 102      | $\dashv$        |             |              |  | -  | $\vdash$                | +             | $\dashv$  |
| 2        | 2         |                |                        |                                     | ++                   | -        | <del></del>            | 52       |                     |               | +   | <del></del>   | -1:::  | -        | 103      | $\dashv$        | -           | $\vdash$     |  |  | $\vdash$                | +             | $\dashv$  |
| 9        | 3         | =              |                        | +                                   | ++                   | -        |                        | 53       | +                   | ╁┼            | $\dashv$  |               | -      | -        |          | $\dashv$        |             | $\vdash$     |  |  | _                       | +             |           |
| 10       | 4         | =              |                        | +                                   | ++                   | -        |                        | 54       | -                   | ₩             | $\dashv$  |               | -      |          | 104      | $\dashv$        | $\dashv$    | ⊢            |  |  | ╁┼                      | $\dashv$      |           |
| 11       | 5         | =              |                        |                                     | $\perp$              | _        |                        | 55       |                     |               | $\dashv$  | -             | -      | <u> </u> |          | -               |             | ├            |  | -  | ⊢-                      | $\dashv$      | $\dashv$  |
| 3        | 6         | =              |                        | $\rightarrow$                       | +                    | 4        |                        | 56       |                     | $\vdash$      |   |               | -      | -        | 106      |                 | -           | -            |  | <u> </u>   | $\vdash$                | $\dashv$      | $\dashv$  |
| 4        | _7_       | =              | $\bot\bot\bot\bot$     | $\bot\bot$                          |                      | 4        |                        | 57       | $\bot$              | $\vdash$      |   | $\rightarrow$ | 4      | <u> </u> | 107      |                 |             | ├            |  | L-   | $\vdash$                | $\dashv$      |           |
| 12       | 8         | =              |                        |                                     |                      |          |                        | 58       | $\dashv \perp$      | 1             | 1   |               | 4      | <u> </u> | 108      | $\dashv$        |             | ļ            | <u> </u>   | <u> </u>   | $\vdash$                | $\dashv$      | 4         |
| 13       | 9         | =              |                        | $\rightarrow \downarrow \downarrow$ | $\bot$               | - 1111   |                        | 59       |                     | $\sqcup$      | $\longrightarrow$   | $\rightarrow$ | _ :::: | <u> </u> | 109      | _               |             | ļ            |  | <b>!</b>   | $\vdash$                |               |           |
| 5        | 10        | =              |                        | $\perp$                             |                      | _        |                        | 60       |                     |               |   |               | _      | L_       | 110      | _               |             | ļ            | <u> </u>   | <u> </u>   | $\vdash$                | $\dashv$      |           |
| 6        | 11        | =              |                        |                                     |                      |          |                        | 61       |                     | Ш             |   |               | _      | 1        | 111      |                 |             | <u> </u>     |  |  | $\sqcup \downarrow$     | $\dashv$      |           |
| 7        | 12        | =              |                        |                                     |                      | _        |                        | 62       |                     | $\sqcup$      | $\perp$   |               | _      |          | 112      | $\perp$         |             |              | <u> </u>   |  | $\sqcup$                | $\perp$       |           |
| 8        | 13        | =              |                        |                                     |                      |          |                        | 63       | $\perp \perp \perp$ | $\perp \perp$ | $\perp \!\!\!\perp \!\!\!\!\perp \!\!\!\!\perp$   |               | _      | <u></u>  | 113      |                 |             | <u> </u>     |  | <u></u>  | Ш                       | $\perp$       |           |
| 14       | 14        | =              |                        |                                     |                      |          |                        | 64       |                     | $\coprod$     | $oldsymbol{ol}}}}}}}}}}}}}}}}}$ |               |        |          | 114      |                 |             |              | _  |  |                         |               |           |
| 15       | 15        | =              |                        | •                                   |                      |          |                        | 65       |                     |               |   |               | _]:::  | L        | 115      | $\Box$          |             | L            | Ŀ  |  |                         | $\Box$        |           |
|          | 16        | Γ              |                        | $\top$                              |                      | 7        |                        | 66       |                     |               |   |               |        |          | 116      |                 |             |              | L  | L  |                         |               | _]        |
| 16       | 17        | =              |                        | - - -                               |                      |          |                        | 67       |                     | П             | $\Box$  |               |        |          | 117      |                 |             |              |  |  | $\Box$                  | П             | $\neg$    |
| 17       | 18        | =              |                        |                                     |                      |          |                        | 68       |                     | 1             |   |               |        |          | 118      |                 |             |              |  |  | $\sqcap$                |               |           |
| 18       | 19        | =              |                        |                                     | 11                   |          |                        | 69       | 11                  |               |   |               |        |          | 119      |                 |             | T            |  |  | $\sqcap$                | $\exists$     | コ         |
| 19       | 20        | =              |                        |                                     |                      |          |                        | 70       |                     | 1             | $\neg \neg$   |               | 7      |          | 120      |                 |             |              |  |  | $\Box$                  | $\dashv$      | ╗         |
| 20       | 21        | =              |                        | +                                   | +                    | -        | $\vdash$               | 71       |                     |               |   |               | 1      |          | 121      |                 |             | T            |  |  | $\Box$                  |               | $\exists$ |
|          | 22        | -              |                        |                                     |                      | $\dashv$ | $\vdash$               | 72       |                     |               |   | + +           | -      |          | 122      |                 |             | <del> </del> |  |  |                         | 十             | $\neg$    |
| 21       | 23        | =              |                        | +                                   | $\rightarrow$        | $\dashv$ | $\vdash$               | 73       | $\pm$               | $\vdash$      | -   | +             | -      |          | 123      |                 | _           | H            | ┢╌   | <del>                                     </del> | $\vdash$                | $\dashv$      | $\dashv$  |
| 22       | 24        | ╁              |                        | +                                   |                      | -        |                        | 74       | ++                  | $\vdash$      | $\dashv$  |               | -      | -        | 124      |                 | +           | ╁╌           | <del>                                     </del> | -  | $\vdash$                | $\dashv$      | $\dashv$  |
| 23       | 25        | ╘              |                        |                                     | -                    |          |                        | 75       |                     | 1-1           | -   | ++            | -      | -        | 125      | $\dashv$        | +           | $\vdash$     | $\vdash$   |  | $\vdash$                | $\dashv$      | $\dashv$  |
|          | 26        | ├-             |                        |                                     | ++-                  |          |                        | 76       | ++                  | 1             | $\dashv$  | +             | -      | $\vdash$ | 126      | +               | $\dashv$    | ╁            | ┢┈   | ┢  | $\vdash$                | +             | -         |
| 24       | 27        | =              | <del>-   -   -  </del> |                                     | ++                   | -        |                        | 77       | +                   | H             | +   | +             | -      | -        | 127      | -               | +           | $\vdash$     | +  | -  | $\vdash$                | $\dashv$      | $\dashv$  |
| 25       | 28        | =              |                        | +                                   | +                    |          | $\vdash$               | 78       | ++                  | $\vdash$      | + +   | +             | -      | -        | 128      | $\dashv$        | +           | $\vdash$     | <del> </del>                                     |  | $\vdash$                | $\dashv$      | $\dashv$  |
| 26       | 29        | =              |                        |                                     |                      | -        | $\vdash$               | 79       | -+                  | $\vdash$      | $\rightarrow$   |               | -      | 1        | 129      | $\vdash$        | +           | $\vdash$     | ├─   | ├  | $\vdash$                | $\dashv$      | -         |
| 20       |           | ┝              |                        |                                     |                      |          |                        |          |                     | <del>-</del>  | -+-+  |               | -      | -        |          |                 |             | ⊢            | ├  | -  | $\vdash$                | +             | -         |
|          | 30        |                |                        |                                     | ++                   |          |                        | 80       | ++-                 | ++            |   |               |        | -        | 130      |                 |             |              | <del>  -</del>                                   | -  | $\vdash$                | $\dashv$      | -         |
|          | 31        | ├              |                        | +                                   | ++                   | -        | <u> </u>               | 81       | ++                  | -             |   |               | -      | -        | 131      |                 |             | ١            | <u> </u>   | ⊢  |                         | $\dashv$      | $\dashv$  |
|          | 32        | -              |                        | $\rightarrow$                       | ++                   | -        |                        | 82       |                     | $\vdash$      |   |               | - 188  | <u> </u> | 132      |                 | -           | ╀            | -  |  | $\vdash$                | $\dashv$      | $\dashv$  |
| <u> </u> | 33        | <del> </del>   |                        | $\dashv$                            | +                    |          |                        | 83       |                     | $\vdash$      | $\dashv$  | +             | 4      | -        | 133      | $\vdash \vdash$ | $\perp$     | $\vdash$     | <b>⊢</b>   | <u> </u>   | $\vdash$                | $\dashv$      | $\dashv$  |
| <u></u>  | 34        | <u> </u>       |                        | $\dashv$                            | $\rightarrow$        | -        | $\vdash$               | 84       | -                   | $\sqcup$      | $\dashv$  | $\perp$       | 4      |          | 134      | $\sqcup$        | -           | 1            | <u> </u>   | <u> </u>   | $\vdash \vdash$         | 4             | 4         |
| <u> </u> | 35        | <u> </u>       | $\square$              | $\dashv$                            | ++                   | -        | $\vdash$               | 85       | $\perp$             | $\sqcup$      | $\dashv$  | -             | 4      | <u> </u> | 135      | $\sqcup$        |             | 1_           | <u> </u>   | <u> </u>   | $\displaystyle igoplus$ | 4             | 4         |
| <u> </u> | 36        | <del> </del> _ |                        |                                     |                      | _        |                        | 86       | $\dashv \downarrow$ | $\sqcup$      | $\dashv$  |               | 4      | -        | 136      | $\sqcup$        |             | <u> </u>     | <u> </u>   | _  | $\sqcup$                | _             | _         |
|          | 37        | <u> </u>       |                        | $\perp$                             | _ _                  | 4        | L                      | 87       |                     | Ш             | $\perp$   | $\perp$       | _      | -        | 137      | $\sqcup$        |             | 1_           | <u> </u>   | _  | $\sqcup$                | $\dashv$      |           |
| L.       | 38        | $oxed{oxed}$   |                        | $\bot$                              |                      | _        | $\square$              | 88       |                     | Ш             | $\perp \!\!\!\perp \!\!\!\!\perp$   | $\bot$        | _      |          | 138      |                 |             | 1            | <u> </u>   | <u> </u>   | $\sqcup$                | ightharpoonup |           |
|          | 39        | $oxed{oxed}$   |                        | $\perp$                             | $\perp \perp$        | _        | $\Box$                 | 89       |                     | Ш             | $\perp$   |               |        | <u> </u> | 139      | Ш               |             | <u> </u>     | L  | <u> </u>   | Ш                       |               |           |
|          | 40        | L              |                        | $\bot\bot$                          | $\bot\bot$           | _        |                        | 90       |                     | Ш             | $\Box$  |               | _      |          | 140      |                 |             |              | lacksquare                                       | <u> </u>   | $\sqcup$                |               |           |
|          | 41        |                |                        |                                     |                      |          |                        | 91       |                     | $\Box$        |   |               |        |          | 141      |                 |             |              | L  |  | Ш                       |               |           |
|          | 42        | <u> </u>       |                        | $\perp \perp \perp$                 |                      | _        |                        | 92       |                     | $oxed{\Box}$  |   |               | _      |          | 142      | $\Box$          |             | L            | $oxedsymbol{oxed}$                               |  | Ш                       |               |           |
|          | 43        | $L^{-}$        |                        |                                     | $\bot\bot$           |          |                        | 93       |                     | $\Box$        |   |               |        |          | 143      |                 |             |              |  | $L^{-}$  | LJ                      |               |           |
|          | 44        | L              |                        |                                     |                      |          |                        | 94       |                     |               |   |               |        |          | 144      | $\Box \top$     |             |              | Ĺ  | L  | LJ                      |               |           |
|          | 45        |                |                        |                                     |                      | 7        |                        | 95       |                     | П             |   |               |        |          | 145      |                 |             | Γ            |  |  |                         |               |           |
|          | 46        |                |                        |                                     |                      |          |                        | 96       |                     | $\top$        |   | $\neg$        | 7      |          | 146      | $\Box$          | $\neg$      | Г            | Γ  |  | $\Box$                  |               | $\neg$    |
|          | 47        |                |                        |                                     |                      |          |                        | 97       | /                   | $\top$        | $\neg \vdash \vdash$  |               |        |          | 147      |                 |             | Т            | Γ  |  | $\Box$                  |               | $\neg$    |
|          | 48        |                |                        |                                     |                      |          |                        | 98       |                     |               |   |               | 7      |          | 148      |                 | $\neg$      | $\vdash$     | 1  | T  | $\Box$                  | $\neg$        | $\neg$    |
|          | 49        |                |                        | 11                                  |                      | 7        |                        | 99       |                     |               | $\dashv$  | 11            | $\neg$ | $\vdash$ | 149      |                 |             | 1            | -  | 1  | 广十                      |               | 一         |
|          | 50        | T              |                        | 1" +                                | <del>-   -   -</del> |          |                        | 100      | +                   | +             | $\dashv \dashv$   | ++            | 1      |          | 150      | -               | +           | $\vdash$     | <del>                                     </del> | †  | $\vdash$                | $\dashv$      | $\dashv$  |
|          | ·         |                | ILI                    |                                     |                      |          | $\overline{}$          |          |                     |               |   |               | :::    |          | 1.00     | $\perp \perp$   | 1           | 1            |  |  |                         |               |           |